



**MISSOURI DEPARTMENT OF TRANSPORTATION  
MATERIALS ENGINEERING  
Jefferson City, Missouri**

**Test Method  
MoDOT T68  
TESTING DELINEATOR REFLECTORS**

- 1.0 Scope.** This method covers the procedure for testing delineator reflectors for adequate seal and heat resistance.
- 2.0 Procedure.**
  - 2.1 Water Tightness.** To determine if reflectors are adequately sealed against dust, water and water vapor, 50 reflectors shall be tested.
    - 2.1.1** All 50 reflectors shall be immersed in water at room temperature in an airtight container and the pressure reduced to 635 mm of mercury for 5 minutes.
    - 2.1.2** Atmospheric pressure shall be restored and the samples shall remain immersed for an additional 5 minutes.
    - 2.1.3** The reflectors shall then be examined for water intake.
    - 2.1.4** Any evidence of water or water vapor in a reflector shall constitute failure and failure of more than two reflectors shall be cause for rejection of the lot.
  - 2.2 Heat Resistance.** Heat resistance testing shall be as follows.
    - 2.2.1** Three reflectors of each size shall be placed in a circulating oven for 4 hours at 63 to 68 C.
    - 2.2.2** The test specimens shall be placed in a horizontal position on a grid or perforated shelf permitting free air circulation.
    - 2.2.3** After the heating period, the samples shall be removed from the oven and permitted to cool in air to room temperature.
    - 2.2.4** The samples at the conclusion of the test shall show no significant change in shape and general appearance. Failure of one sample shall be cause for rejection of the lot.

